IICS Secure Agent Group Setup Configuration

# Introduction

This document is a walkthrough guide related to the latest Informatica Secure Agent Application Installation.  
In this documentation:

The user might be able to find important settings, system requirements, the physical location of each Secure Agent, and the Production step-by-step installation.

Index

[Introduction 1](#_Toc116636265)

[IICS Secure Agent Group related 2](#_Toc116636266)

[IICS Mass Ingestion Setup Requirements 2](#_Toc116636267)

[Secure Agent Minimum Requirements 2](#_Toc116636268)

[Registering Secure Agent On IICS 3](#_Toc116636269)

[Secure Agent Group Setup 3](#_Toc116636270)

[SERVICES 3](#_Toc116636271)

[CONNECTORS 3](#_Toc116636272)

[Secure Agent Individual Setup 4](#_Toc116636273)

[Database Ingestion 4](#_Toc116636274)

[Mass Ingestion 4](#_Toc116636275)

[How to Register an Existing Agent to another Org 5](#_Toc116636276)

[Physical Information Spreadsheet (Network Related) 5](#_Toc116636277)

# IICS Secure Agent Group related

For now, this is being specified centrally, but this can be manifested with variation for each group that is created, and it will automatically be inherited by every secure agent in that group.

Services Enabled

Connectors Enabled

Additional Services

# IICS Mass Ingestion Setup Requirements

Define the ORACLE\_HOME environment variable on the Linux or Windows system where the Secure Agent runs for Mass Ingestion Databases to use the Oracle Call Interface (OCI) to communicate with the Oracle source database.

Install Oracle Client (see Informatica PAM for compatibility)

Setup tnsnames.ora to have the entries for the specific Oracle DBs

Configure System Variables in the /home/infa/.bash\_profile

$ORACLE\_HOME

$LD\_LIBRARY\_PATH (including $ORACLE\_HOME/lib)

$PATH (including $ORACLE\_HOME and $ORACLE\_HOME/bin)

Recycle Informatica Secure Agent (if it is already running)

./infaagent shutdown

./infaagent startup

# Secure Agent Minimum Requirements

Actual servers has only 4 CPU-Cores/16 GB RAM

250 GB Disk

Set "Core File Size" to unlimited

Set “NoFiles” (sometimes “Open files”) parameter for INFA user to 65,535.

Set the “Max User Processes” parameter for INFA user to unlimited (or at least 256,000).

Confirm the shared library LIBIDN is installed and available for INFA user. The "idn" command should run successfully.

DBA to install Oracle Client on the servers that are going to run Database Ingestion.

# Registering Secure Agent On IICS

./infaagent startup

./consoleAgentManager.sh configureToken USER IICSTOKEN

In the IICS UI (Administrator Module) make sure to rename the Secure Agent Group to attend to Donaldson name standards.

# Secure Agent Group Setup

## SERVICES

Data Integration (Both)

Mass Ingestion-Databases (for Mass Ingestion only)

Data Masking (Both)

## CONNECTORS

JDBC\_IC (Both)

Oracle CDC (CDI only)

Oracle CDC v2 (CDI only)

Oracle Database Ingestion (for Mass Ingestion only)

Snowflake (for CDI only)

Snowflake Cloud Data Warehouse (Both)

Snowflake Cloud Data Warehouse V2 (Both)  
  
• OdbcDataDirectNonWapi is the super set of OdbcDataDirectWapiWithSQLWChar.  
  
• OdbcDataDirectNonWapi should be enabled if you want to process ASCII Extended Character/UNICODE characters.  
  
• OdbcDataDirectWapiWithSQLWChar is of no importance if OdbcDataDirectNonWapi is 1.  
  
• **If OdbcDataDirectNonWapi is set to 0 then below is the behavior of OdbcDataDirectWapiWithSQLWChar**  
  
• OdbcDataDirectWapiWithSQLWChar = 1 : All characters will be considered as 2 bytes  
  
• OdbcDataDirectWapiWithSQLWChar = 0 : Only Nvarchar characters will be considered as 2 bytes.

# Secure Agent Individual Setup

SECURE AGENT COMMON INTEGRATION COMPONENTS (BOTH NORMAL/MASS INGESTION SERVERS)

JRE\_OPTS = '-Xms64m -Xmx1024m' (Both)

LCM\_JRE\_OPTS = '-Xms64m -Xmx512m' (Both)

SECURE AGENT DATA INTEGRATION SERVER CONFIG (BOTH NORMAL/MASS INGESTION SERVERS)

INFA\_MEMORY = '-Xms512m -Xmx2048m -XX:MaxPermSize=384m’ (both)

JVMOption1 = '-Xmx2048m’ (Both)

JVMOption2 = '-Djava.io.tmpdir=/INFA\_SHARED/Temp' (CDI only not set in Prod yet)

JVMOption3 = ‘-XX:ParallelGCThreads=2'(CDI only not set in Prod yet)

JVMOption4 = ‘-XX:CICompilerCount=2'(CDI only not set in Prod yet)

LCM\_SCRIPT\_MEMORY = '-Xrs -Xms24m -Xmx768m' (Both)

MaxDTMProcesses = 0.75 \* # CPUs (CDI only not set in Prod yet)

$PMLookupFileDir = '/INFA\_SHARED/LkpFiles' (CDI only)

$PMSessionLogDir = '/INFA\_SHARED/SessLogs (CDI only) (CDI only)

$PMBadFileDir = '/INFA\_SHARED/BadFiles' (CDI only)

$PMCacheDir = '/INFA\_SHARED/cache' (CDI only)

$PMStorageDir = '/INFA\_SHARED/Storage' (CDI only)

$PMTargetFileDir = '/INFA\_SHARED/TgtFiles' (CDI only)

$PMSourceFileDir = '/INFA\_SHARED/SrcFiles' (CDI only)

$PMExtProcDir = '/INFA\_SHARED/ExtProcDir' (CDI only)

$PMTempDir = '/INFA\_SHARED/Temp/' (CDI only)

$PMWorkflowLogDir = '/INFA\_SHARED/WorkflowLogs' (CDI only)

# Database Ingestion

maxTaskUnits = 120

ociPath = '/app/oracle/lib'

logLevel = 'INFO'

taskExecutionHeapSize = '64g'

# Mass Ingestion

app-heap-size = '-Xms256m -Xmx2048m'

lcm-heap-size = '-Xms32m -Xmx128m'

# How to Register an Existing Agent to another Org

1) Go to $INFA\_AGENT\_HOME/apps/agentcore/conf and edit infaagent.ini removing all lines just leaving the following lines:

#

#Tue Oct 12 15:30:31 CDT 2021

InfaAgent.MasterUrl=https\://dm1-us.informaticacloud.com

InfaAgent.UseToken=true

2) Go to IICS Administrator -> Run-Time Environment and get the Token (this will be used in the Step 4)

3) Start the agent (./$INFA\_AGENT\_HOME/apps/agentcore/infaagent startup

4) Run /$INFA\_AGENT\_HOME/apps/agentcore/consoleAgentManager.sh configureToken <IICS\_ADMIN\_USER> <TOKEN>

# Physical Information Spreadsheet (Network Related)

Double click at the image below to find DEV, QA, and PROD sheets.  
Once opened switch from the environment at the bottom: 

