Visma Cloud Gateway

VISMA

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Integration Platform Introduction

This section contains information and a short introduction into Integration Platform.

Integration **P**latform **P**roject (IPP) is a "family" of microservices which can be used independently or all together (depending on the type of the integration) for communications between different Visma products (with security when it is needed). IPP supports 2 types of communications: synchronous(via invocations) and a-synchronous(via messages). This document contains information for communication between local applications (On Premises) installed on the customer side and products / services delivered over the internet (On Demand) involving Visma Cloud Gateway. This group of IPP modules manages the connections between On Demand and On Premises and guarantees the security for data transmission in order to avoid snoopers or even to protect our customers data. All sequential communication between Visma Cloud Gateway and On Demand Gateway goes through the encrypted ssh tunnel. In this document we will mainly talk about Cloud Gateway and On Demand Gateway, because they are the most visible components for end users.

IPP also contains not visible for end users module and used during Visma Cloud Gateway installation:

- Tunnel Manager (TM): - the module responsible for creating tunnels;
- Register Authority (EJBCA Wrapper): needed to establish Visma certificates for Customers (related to security)
- Certificate Authority (EJBCA CA): the storage of Visma Certificates

These modules are deployed at On Demand side, supported by Visma and needed only during Visma Cloud Gateway installation. They are mentioned in a couple of chapters in the Visma_Cloud_Gateway_Guide document.

A-synchronous communication involves: Visma Cloud Gateway, On Demand Gateway and On Demand Message Router. On Demand Message Router is deployed and supported by Visma.

All types of communication requires proper registration in ODP (On Demand Platform). For more information about ODP please contact the ODP team.

Customer's side component: Visma Cloud Gateway (VCG): an intermediary Windows service and part of the bridge between OD and OP. Each customer can install one or several (one for each OP application) VCGs as it is described in the Deployment Models section. The Visma Cloud Gateway knows how to call home and does so to establish a SSH tunnel. Please note that each SSH tunnel (or VCG tunnel) is unique per machine due to certificate usage and security requirements. Visma Cloud Gateway redirects:

- all communication from On Premises which destined for On Demand to the On Demand Gateway;
- all communication from On Demand (received via On Demand Gateway) to On Premises Applications;
- all messages from On Demand (via On Demand Gateway and Message Router) to appropriate On Premise messaging system (MSMQ or ActiveMQ);
- all messages from On Premises Applications messaging system (MSMQ or ActiveMQ) to Message Router through On Demand Gateway;

It is possible to receive automatic updates for Visma Cloud Gateway. In such a case Visma Cloud Gateway should be installed together with the Visma Update Client. For more information see What is Visma Update.

Important notes related to VCG:

1. Visma Cloud Gateway(VCG) is the new name of Visma On Premises Gateway(OPG)
2. Visma Cloud Gateway service is run as Network Service Windows user by default, but it can be changed manually and run as Local Service or Local System user instead;
3. Each SSH tunnel (or VCG tunnel) is unique per machine due to certificate usage and security requirements. Cloning of machines with VCG installed will cause problems. Please uninstall such VCG and make a fresh install
4. Since 4.1 version Visma Cloud Gateway supports MSMQ messages besides web service calls;
5. Starting from version 5.0 it is possible to set up several VCG instances for different customers on the same machine/ server (for more details see the appropriate chapter);
6. Staring from version 5.2 VCG supports not only SOAP but also REST calls
7. Starting from version 5.3 Visma Cloud Gateway supports ActiveMQ for messages and it is optional to use it;
8. If you want to receive automatic updates of VCG use Visma Update client which is part of the installation package;
9. Besides communication between different applications it is possible to register ODP data via VCG
10. Starting from 6.0 it is possible to keep VCG configuration (data registered in ODP) after uninstallation and reuse the same configuration on the next VCG install
11. Staring from 6.1 ActiveMQ installation is optional and it is possible to set up firewall rules from the installer
12. Starting from 6.5 VCG supports work through proxy (http proxy with and without username/password authentication)
13. Windows XP, Windows Vista and Windows 2003 are not supported any more starting from VCG 6.3

14. Older versions of VCG than 7.0 are not allowed for the new installation or creation of new VCG instances. If you already have VCG older than 7.0 installed and running on your machine, it should work fine. But if you would like to re-install it then you will be asked to use the latest version
15. From version 7.4 it is possible to install VCG without providing the initial client credentials. These can be later added through the Diagnosis application or from the On Premises application(exposed methods in VCG)
16. Visma Update installer no longer visible and starts automatically in the background
17. The ip address behind odg.visma.net is changed to 91.123.56.26

On **D**emand **G**ateway (ODG) is installed on the On Demand side and supported by Visma. ODG redirects all traffic:

- from Visma Cloud Gateway to the correct OD application
- from OD applications (destined for one of the customers' OP application) to the correct Visma Cloud Gateway, which redirects the traffic to the correct OP application

Important notes related to ODG:

1. Since 4.1 version ODG accepts msmq messages from VCG, transforms them into jms messages and sends them further to the Message Router. For more information about messages please contact the Integration Platform team.
2. Starting from version 5.2 ODG supports beside SOAP also REST calls
3. Starting from version 5.3 ODG supports ActiveMQ messages from/to ODP

What is new in 8.2 version

This section contains last changes that were done after the 7.8 version and included into 8.2 related to On Premises clients.

Visma Cloud Gateway (VCG)

- VCG connection to our servers in AWS cloud
- Update .net framework to 4.8
- Improved calls response time
- Update Apache.NMS libs to 2.1.0
- Security improvements
    - HTTPS TLS 1.2 connection to our cloud AWS server doesn't need VismaCA1 root certificate imported anymore, is done though the Entrust CA
    - Opening outgoing connection to 18181 port is not needed anymore
    - stop calls to decommissioned Visma services
    - stop spam messages that can clutter the servers
    - added Snyk checks for VCG libs
    - Updated OpenJRE to 11.0.21_9 version
- Bug fixing

Diagnosis App

- Update .net framework to 4.8
- Bug fixing

OD and OP .net dev libraries

- Update .net framework to 4.8
- Update Apache.NMS libs to 2.1.0
- Support async AMQ messages methods
- Bug fixing