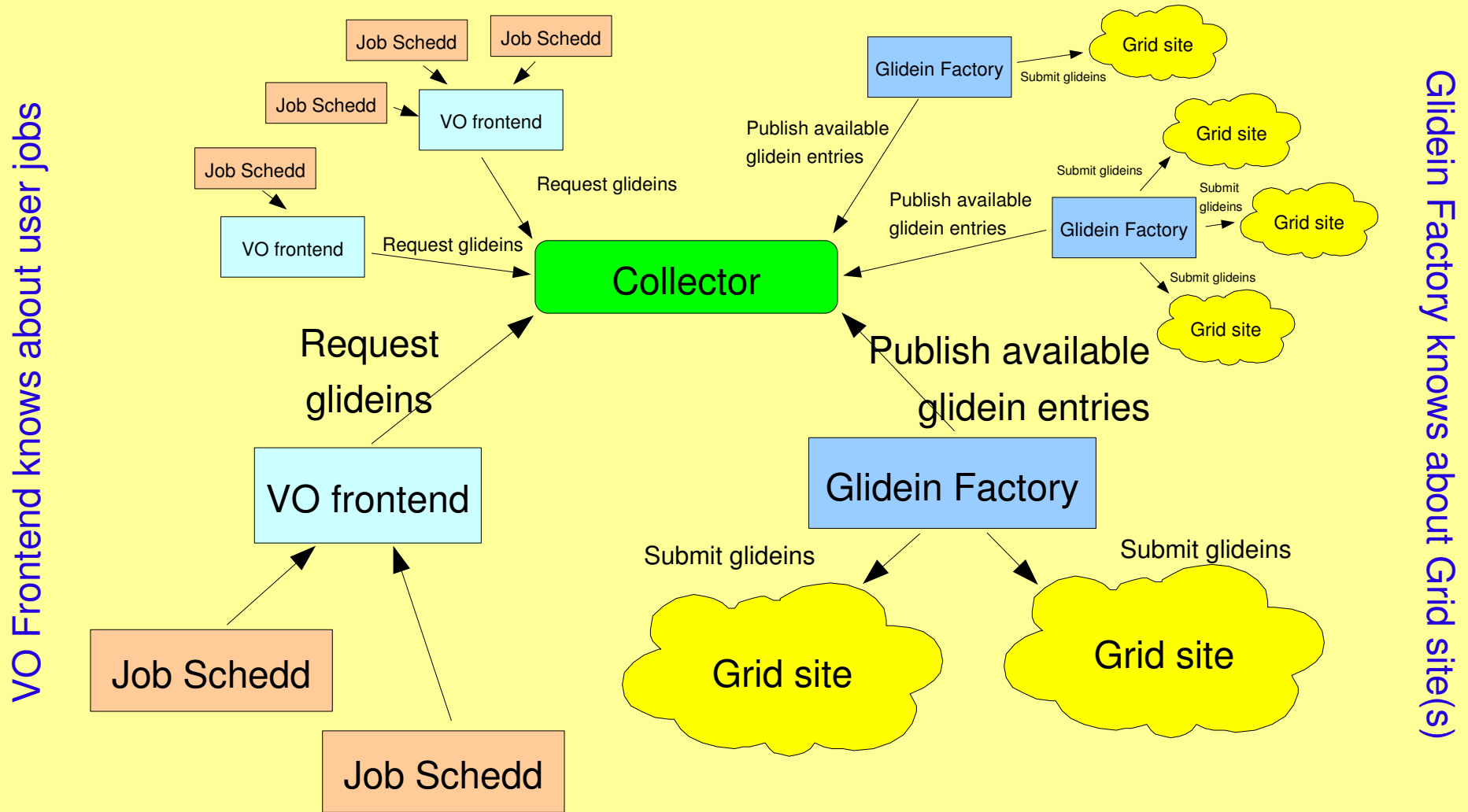# glideinWMS

by Igor Sfiligoi

glideinWMS overview

- Essentially a standard Condor pool, with startds started in a dynamic way
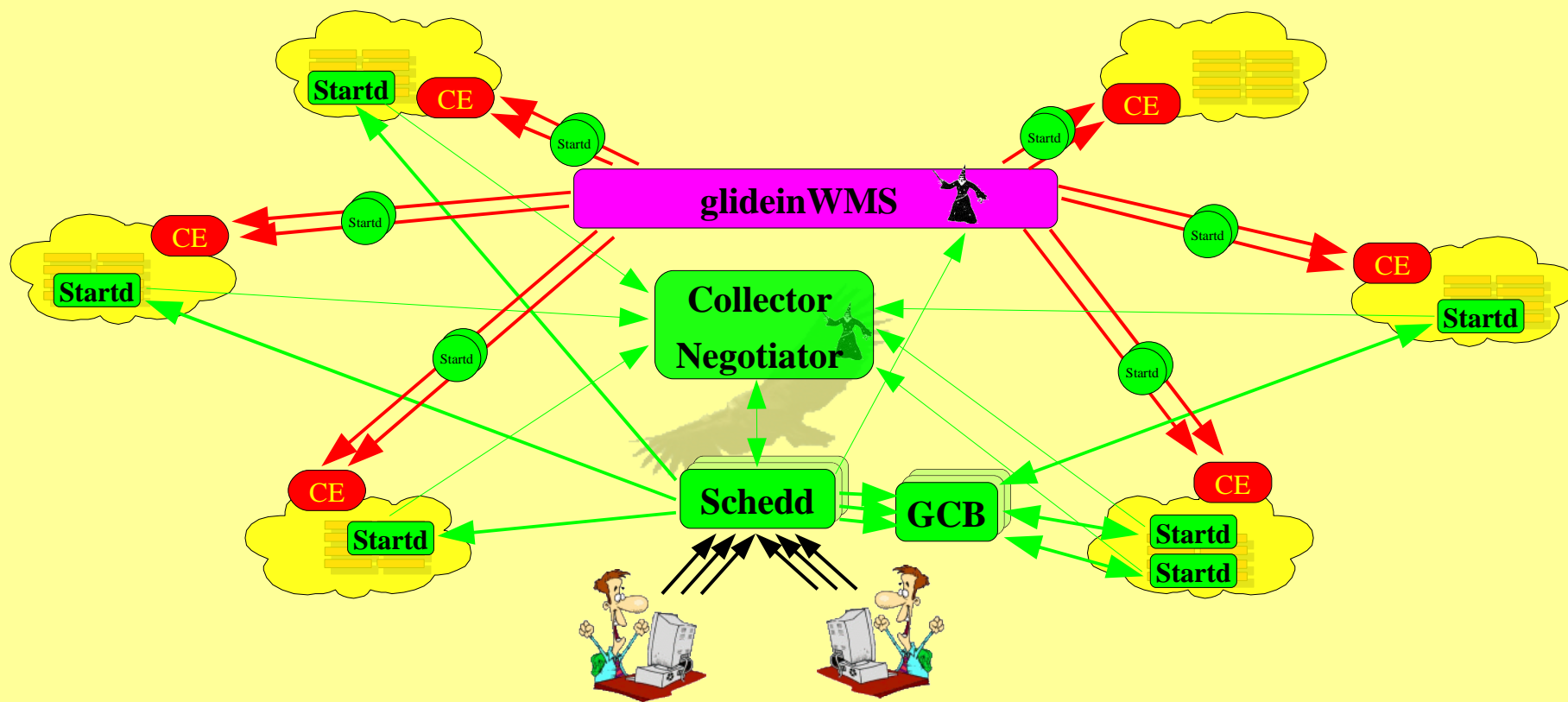
glideinWMS details

Glidein factory ClassAd

Due to Condor limitations,
define also GlideinMyType

Published classad

MyType="glidefactory"

Name="entry@factory"

FactoryName="factory"

GlideinName="entry"

Attribute1="..."

...

AttributeN="..."

GlideinParamXXX="val1"

...

GlideinParamYYY="valN"

Attributes describe the glidein
like:
ARCH="INTEL", MaxHours=72, Site="Florida"

Parameters set glidein parameter defaults
like:
CONDOR_HOST="UNDEFINED",SEC_DEFAULT_ENCRYPTION=OPTIONAL
MinDisk=16G, CheckFilesExist="/tmp/CMS,$DATA/OSG"

VO Frontend ClassAd

Published classad

MyType="glideclient"

Name="reqX@client"

ClientName="client"

ReqName="reqX"

ReqGlidein="entry@factory"

ReqIdleGlideins=nr

ReqMaxRun=nr

ReqMaxSubmitXHour=nr

GlideinParamWWW="val1"
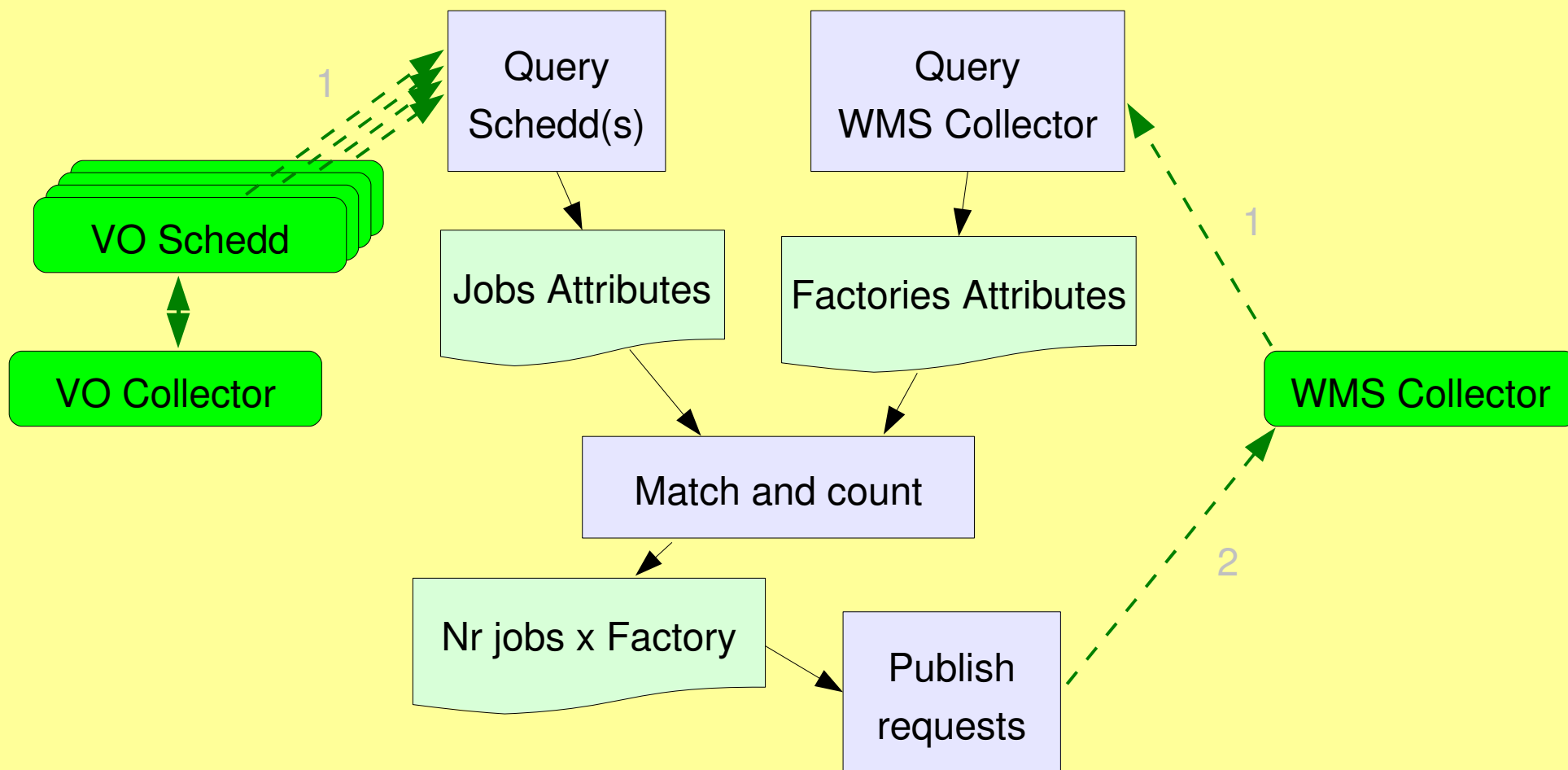
...

GlideinParamZZZ="valY"

Due to Condor limitations, define also GlideinMyType

Trying to keep a steady stream of glideins starting

Limits on the amount of glideins submitted envisioned but not yet implemented

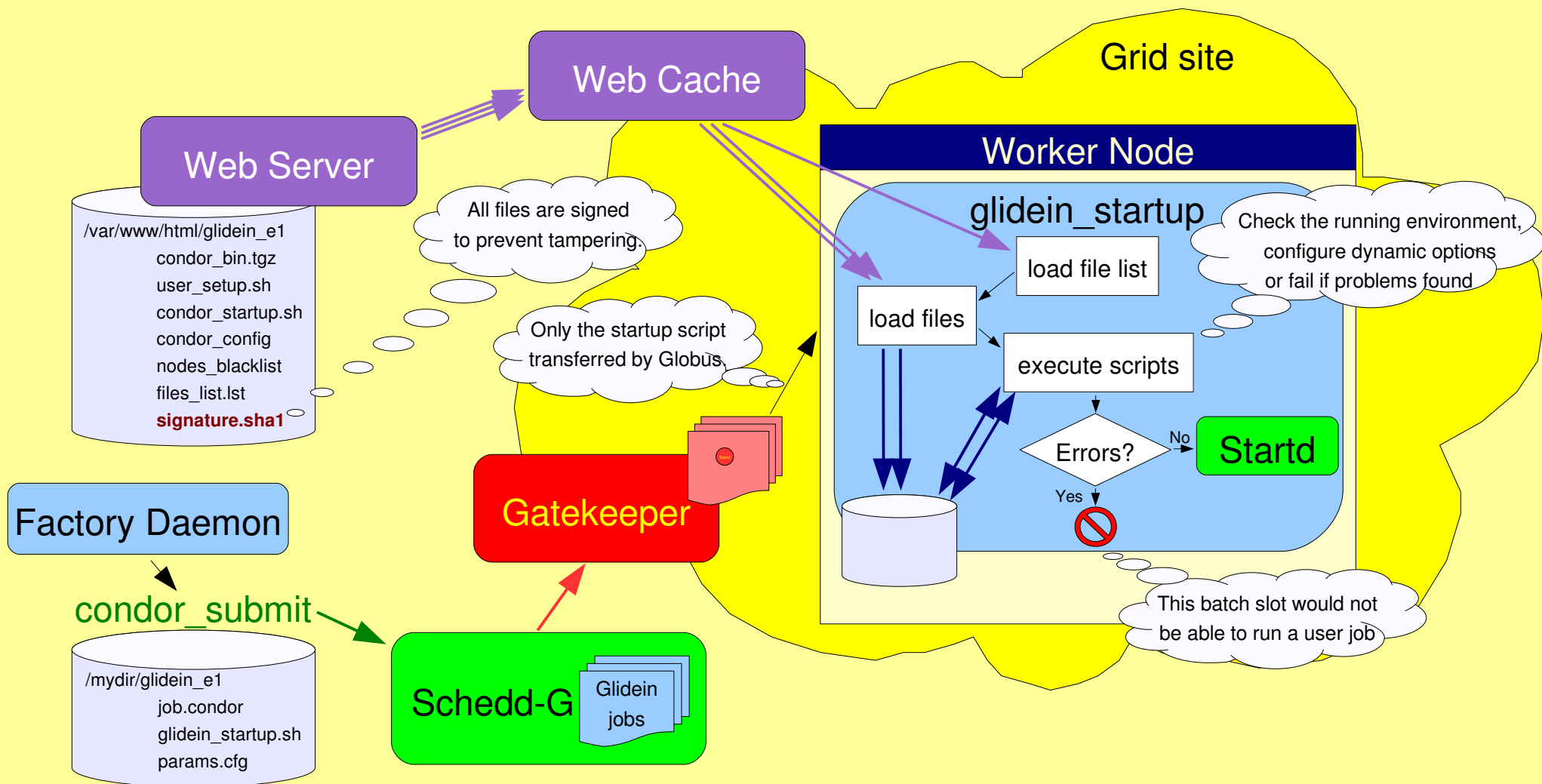GlideParamXXX must match the names published by the factory

VO Frontend Acts as a Matchmaker

Glidein Factory blindly executes orders
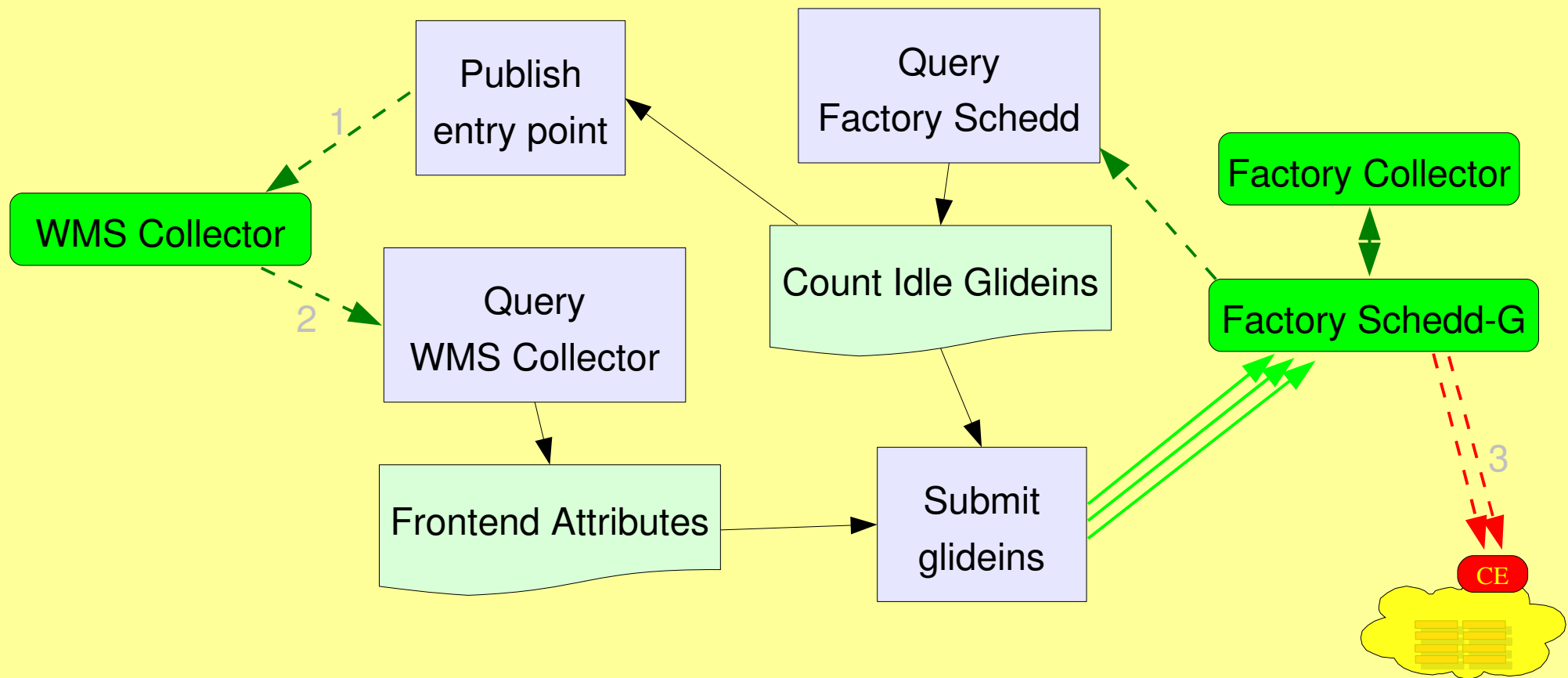
Glidein internals

glideinWMS security

- All security handled by Condor

- glideins use GSI for authentication

  - proxy delivered by Grid tools

- WMS collector can use any Condor supported mechanism