WCS integration to Prometheus

- WCS metrics collection
- Server instance metrics collection

Prometheusis the open source monitoring system and time series database. WCS supportsPrometheus metric format since build5.2.416, no WCS setup is needed to integrate with Prometheus monitoring.

WCS metrics collection

To set up Prometheus to collect WCS metrics, the following scrape configuration should be described in prometheus.yml

```
scrape_configs:
  - job_name: 'flashphoner'
    metrics_path: '/'
    params:
      action: [stat]
      format: [prometheus]
    static_configs:
      - targets: ['WCS_address:8081']
```

Where

- WCS_address - WCS server address
- 8081 - WCS server port to request metrics

As a result, Prometheus should form the following query

```
http://WCS_address:8081/?action=stat&format=prometheus
```

and receive WCS statistics metrics in its format.

Since build 5.2.518, metrics of published streams can be requested by the following query

```
http://WCS_address:8081/?action=stat&format=prometheus&groups=publish_streams
```

Server instance metrics collection

Server instance on which WCS is installed operating system metrics can be collected to Prometheus usingPrometheus Node Exportermodule. To install the module, use the following script

Prometheus Node Exporter install script

```
#!/bin/bash
wget https://github.com/prometheus/node_exporter/releases/download/v1.0.1/node_exporter-1.0.1.linux-amd64.tar.gz
tar zxvf node_exporter-*.linux-amd64.tar.gz
cd node_exporter-*.linux-amd64
sudo cp node_exporter /usr/local/bin/
sudo useradd --no-create-home --shell /bin/false nodeusr
sudo chown -R nodeusr:nodeusr /usr/local/bin/node_exporter

sudo cat > /etc/systemd/system/node_exporter.service << EOF
[Unit]
Description=Node Exporter Service
Wants=network-online.target
After=network.target

[Service]
User=nodeusr
Group=nodeusr
Type=simple
ExecStart=/usr/local/bin/node_exporter
ExecReload=/bin/kill -HUP $MAINPID
Restart=on-failure

[Install]
WantedBy=multi-user.target
EOF
sudo systemctl daemon-reload
sudo systemctl enable node_exporter
sudo systemctl start node_exporter
```